

1/13

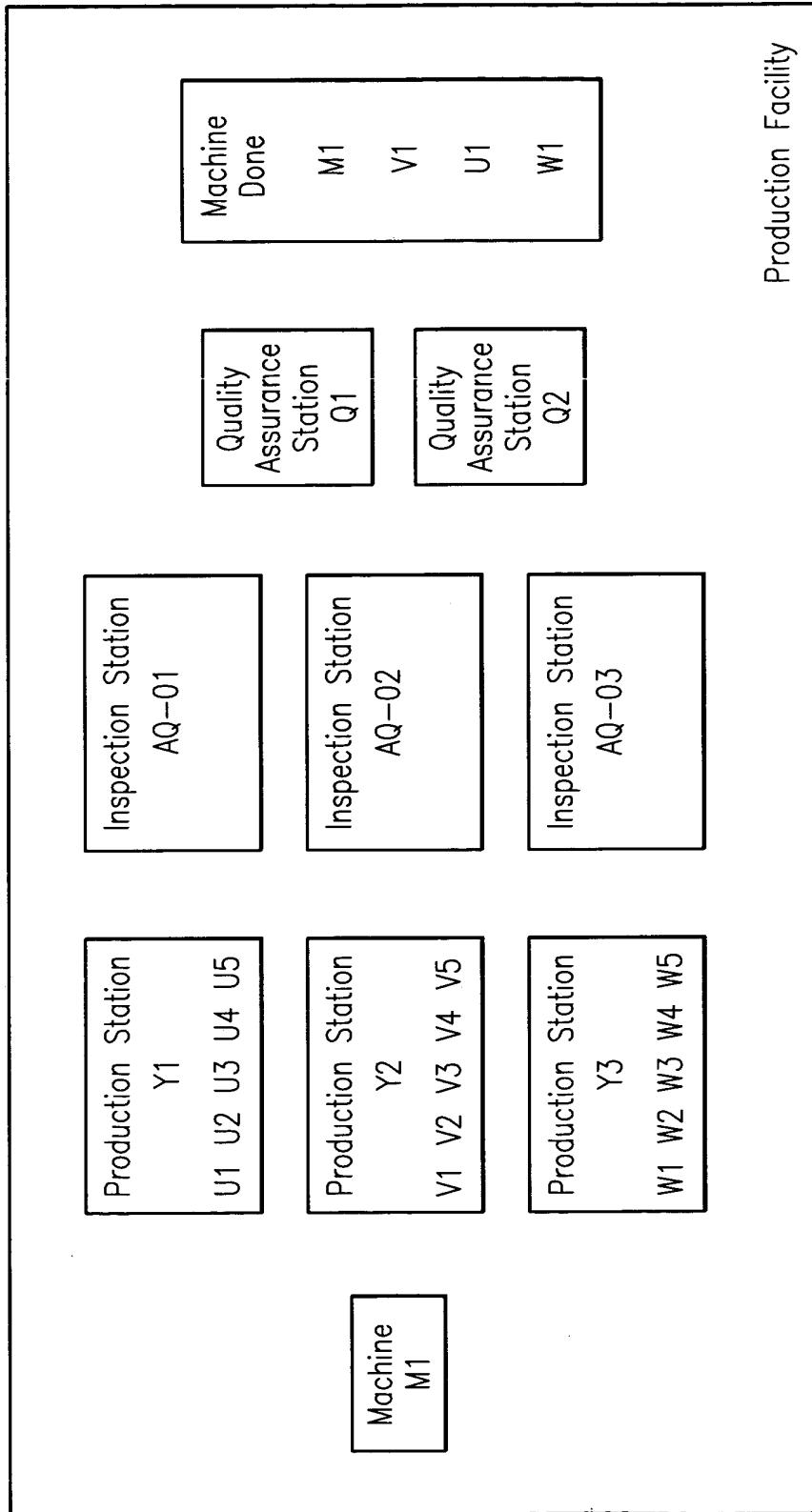


FIG. 1



2/13

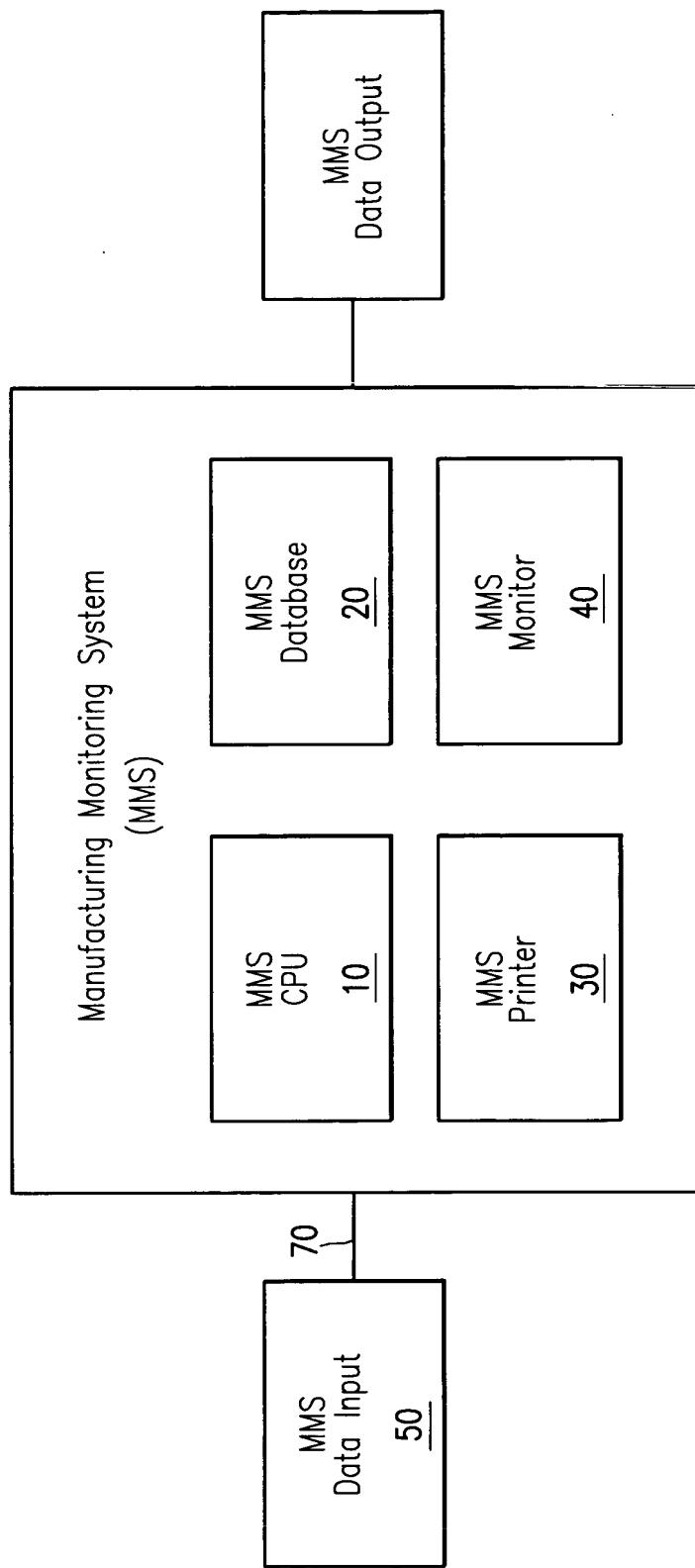


FIG. 2



3/13

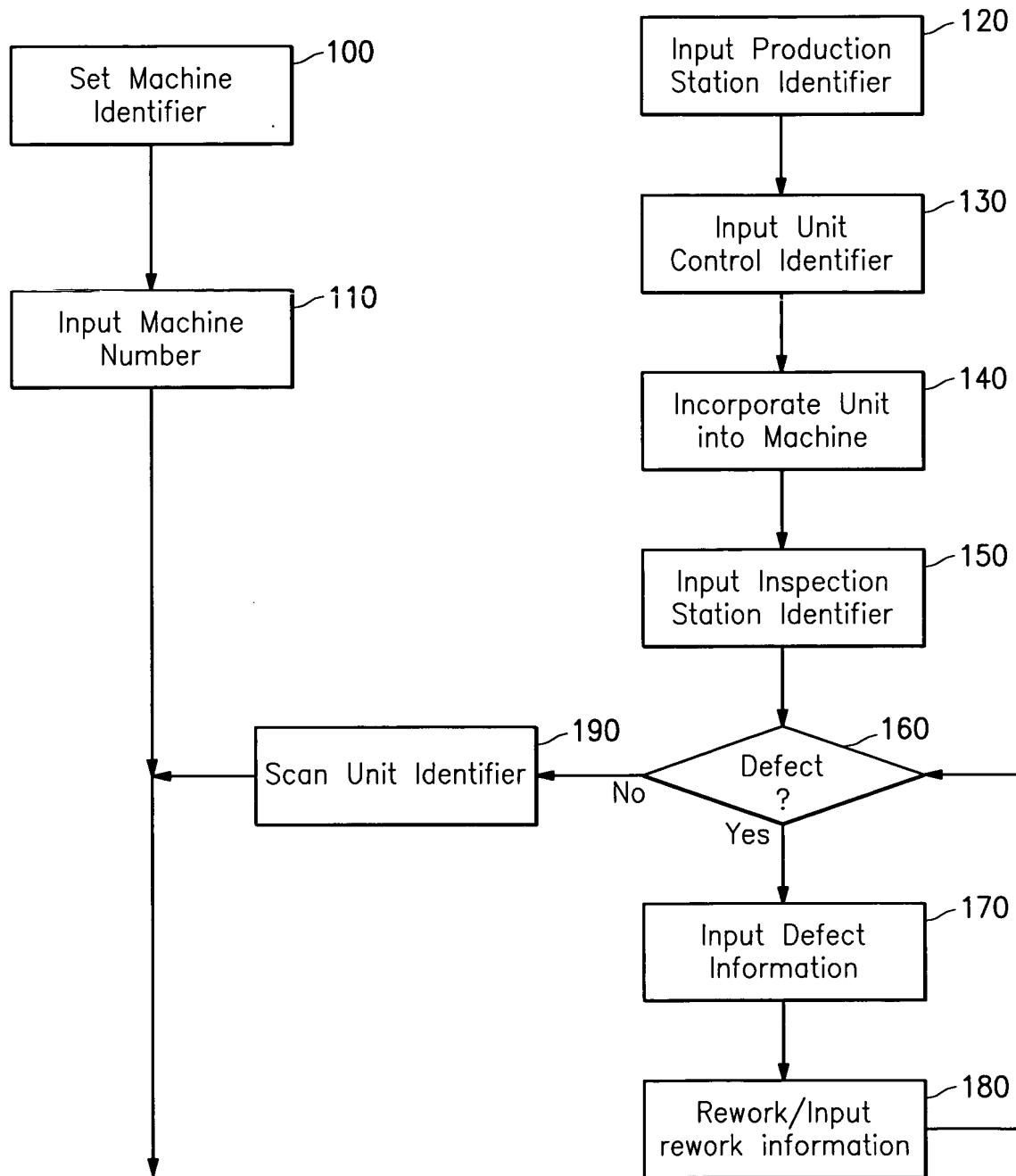


FIG. 3



U.S. Serial No.: 9/827,507
 Filing Date: April 6, 2001
 Title: APPARATUS AND METHOD FOR MONITORING
 MANUFACTURING STATUS
 Inventor(s): Tri Minh Nguyen
 Hogan & Hartson Docket No.: 81855.0008
 Replacement Sheet

4/13

191	Serial No. <input type="text"/>	Date <input type="text"/>	Month <input type="text"/>
	Machine No. <input type="text"/>	<input type="button" value="List All QA defect"/>	<input type="button" value="Print Out Traveler"/>
192	QA Insp.Name <input type="text"/>	Inspection Date <input type="text"/>	<input type="button" value="Exit"/>
	Alicia - 00073 Ellen - 02120 Em - 01945 Heriberta - 00369 Rita - 00406 Rosa - 02365 Socorro - 00461 Victor - 04508	<input type="button" value="Log on"/> <input type="button" value="Log off"/>	<input type="button" value="188"/>
193	Insp.Station <input type="button" value="Defect"/>	Employee # <input type="text"/>	Defect Time <input type="text"/>
194	Grade <input type="button" value="Repair"/>	Responsible <input type="text"/>	<input type="button" value="Note"/>
195	Repair <input type="text"/>	<input type="button" value="188"/>	<input type="button" value="199"/>
196	TTR Name <input type="text"/>	<input type="button" value="Insp.Recheck Name"/>	<input type="text"/>
197	<input type="checkbox"/> 0 <input type="checkbox"/> *	<input type="text"/>	<input type="text"/>
198	<input type="checkbox"/> <input type="checkbox"/> 0 <input type="checkbox"/> *	<input type="text"/>	<input type="text"/>
199	<input type="text"/>	<input type="text"/>	<input type="text"/>

FIG. 3A



U.S. Serial No.: 9/827,507
Filing Date: April 6, 2001
Title: APPARATUS AND METHOD FOR MONITORING
MANUFACTURING STATUS
Inventor(s): Tri Minh Nguyen
Hogan & Hartson Docket No.: 81855.0008
Replacement Sheet

5/13

FIG. 4A

FIG. 4B

FIG. 4



U.S. Serial No.: 9/827,507
 Filing Date: April 6, 2001
 Title: APPARATUS AND METHOD FOR MONITORING
 MANUFACTURING STATUS
 Inventor(s): Tri Minh Nguyen
 Hogan & Hartson Docket No.: 81855.0008
 Replacement Sheet

FIG. 4A

A229-17 120V-60Mz		Traveler - Machine Record	
MACHINE NUMBER	MACHINE Serial #	BAR CODE NUMBER	
200	2299110042		
AU-01	Scanner BICU PCB Serial # Duplex Unit No. Scanner Unit No.	Machine Input Date/Time 11/1/99 11 27:15 AM	Machine Output Date/Time
AU-02	Fusing Unit No. Controller Unit No. PCU Unit No.	ARDF Serial No.	Beam Pitch
AU-03	Tandem LCT User No. Operation Panel PCB Serial No.	PCI Nos.	Beam Power
AQ-01	I/O PCB Serial # Power Supply PCB Serial # Paper Bank PCB Serial # Ground Test Insulation Test	49040107 49034179 49047500 Beep (yes) (no) 10 M0hms or More (yes) (no)	Upper Lower
AQ-02	Leakage Test Total Wattage	3.5 mA Max 1300~1500 Watts (yes) (no) 1475 Watts	Back Front
AQ-03	Total Counter	0000000001~00000100	Slave Developer Tank Voltage #
AQ-04	High Voltage Test Ground Test	1.25 KV for 2 seconds 0.1 Ohm or Less (yes) (no)	0 0 7 1 1 1 J
		Units	Operation Panel PCB Serial # Paper Feed Unit No. Exit Unit No.



U.S. Serial No.: 9/827,507
 Filing Date: April 6, 2001
 Title: APPARATUS AND METHOD FOR MONITORING
 MANUFACTURING STATUS
 Inventor(s): Tri Minh Nguyen
 Hogan & Hartson Docket No.: 81855.0008
 Replacement Sheet

7/13

QA Defect	Repair	TTR	QA											
				Defect	Repair	TTR	QA	Defect	Repair	TTR	QA	Defect	Repair	
AQ-01	AQ-02	AQ-03	AQ-01	AQ-02	AQ-03	AQ-04	AQ-05	AQ-06	AQ-07	AQ-08	AQ-09	AQ-10	AQ	
0	0	0	0	02555	00059	92684								
Note														
270 STA		REPAIR		OUT	OFF LINE	TTR	INSP							
DEFECT				IN										
				OUT										
				IN										
				OUT										
				IN										
				OUT										
				IN										
				OUT										
				IN										
				OUT										
				IN										
				OUT										
				IN										
				OUT										
				IN										

270

FIG. 4B



8/13

Current Data (From Last Working Day 4:00 PM to Today 4:00 PM)

QC Stations

	Def	Insp	Rate	X	Q'ty	Rate
AQ-01	14	88	0.159	III		Prod Main 22 0.262 III
AQ-02	6	87	0.069	III	All Models	Prod Sub 6 0.072 III
AQ-03	6	85	0.071	III		J-7 4 0.048 III
AQ-04	0	85	0	III	Total Defect 44 395	Loc 0 0 III
AQ-05	2	83	0.024	III	NIC Defect 1 390	PCB 1 0.012 III
AQ-06	0	86	0	III	Insp.Q'ty 84 380	Eng 0 0 III
AQ-07	2	85	0.024	III	Failer Rate 0.513 370	QC 0 0 III
AQ-08	3	84	0.036	III		No Info 0 0 III
AQ-09	1	84	0.012	III	Refresh to Latest Data	Others 2 0.024 III
AQ-10	1	84	0.012	III		Under Rework 7 0.084 III
AU-01	2	88	0.023	III		340 350 360
AU-02	3	76	0.04	III	Return to Main Screen	
AU-03	3	75	0.04	III		
	300	310	320	330		

FIG. 5



U.S. Serial No.: 9/827,507
 Filing Date: April 6, 2001
 Title: APPARATUS AND METHOD FOR MONITORING
 MANUFACTURING STATUS
 Inventor(s): Tri Minh Nguyen
 Hogan & Hartson Docket No.: 81855.0008
 Replacement Sheet

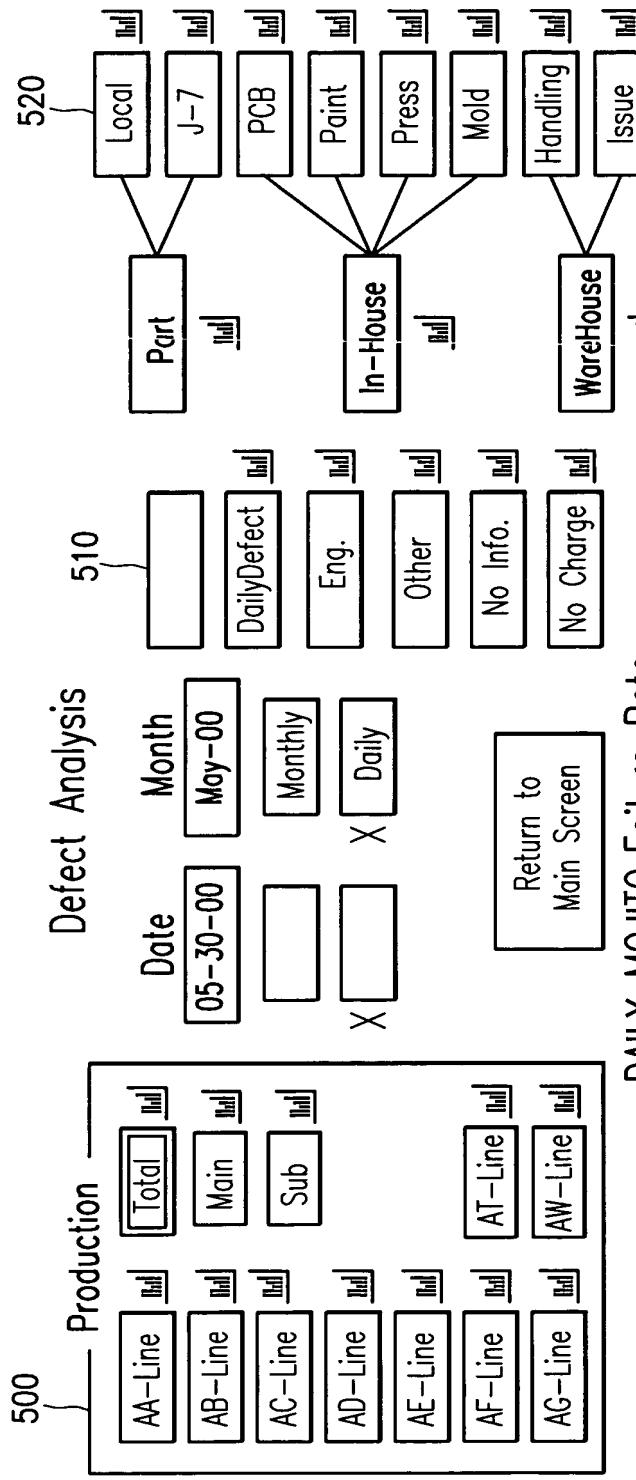
9/13

Machine No.	Insp	St	Defect	Repair	Prod	Defect	Time
9350050200	AQ-01		Discn cn(2)pin rear mach Fan	Connected	PROD	AE LINE	5/30/00 7:55:36AM
9350050168	AQ-01		Discn cn(273); Paper bank board	Connected the connector	PROD	AE-07	5/25/00 4:53:37PM
9350050177	AQ-01		Harness out of the saddle rear side mach base	Put into the clamp	PROD	AE-02	5/25/00 4:03:44PM
9350050254	AQ-01		Incomplete locked Ferrite Cote	Assy closed (ferrite)	PROD	AC LINE	5/30/00 2:01:58PM
9350050238	AQ-01		Loose rivet: paper bank frame	Retighten	PROD	AW LINE	5/30/00 12:50:25PM
9350050220	AQ-01		M/M Duct fan	Remounted	PROD	AC-05	5/30/00 10:01:01AM
9370050011	AQ-01		M/S ferrite power cord		PROD	AC-05	5/30/00 3:32:19PM
9350050252	AQ-01		M/S screw, Duct fan		PROD	AC-01	5/30/00 3:24:30PM
9350050252	AQ-01		M/S screw, Duct fan(1)	Installed (SCREW)	PROD	AE-11	5/30/00 1:25:52PM
9350050202	AQ-01		M/S screw, Duct fan brkt (1)	Installed the screws	PROD	AE-02	5/30/00 8:11:51AM
9350050248	AQ-01		M/S toner recycle brkt. Screws on rear side	PTA #9 error (installed the saddles)	PROD	AE-LINE	5/30/00 12:37:00PM
9350050243	AQ-01		Mis-routed black han. Power supply	Assy put correct position(harness)	PROD	J-7	5/30/00 4:04:34PM
9350050177	AQ-01		No display: operation panel	Replace BICU replaced	J-7	5/30/00 11:12:52AM	
9350050233	AQ-01		No display: operation panel	Replace scanner PCB	PROD	AE-10	5/30/00 9:24:40AM
9350050209	AQ-01		No power: machine	BICU CN-301 disconnect(connected)En	J-7	5/30/00 8:24:02AM	
9350050205	AQ-01		SC 366 light stay on	Replaced BICU pcb			
9350050252	H4805300240	AQ-01	MS Screw Doct				
9350050252	H4805300240	AQ-09	Out prime temp scanner harness				
Record	◀ ▶	8165	▷ ▶	or 8165			

FIG. 6



10/13



DAILY MOJITO Failure Rate

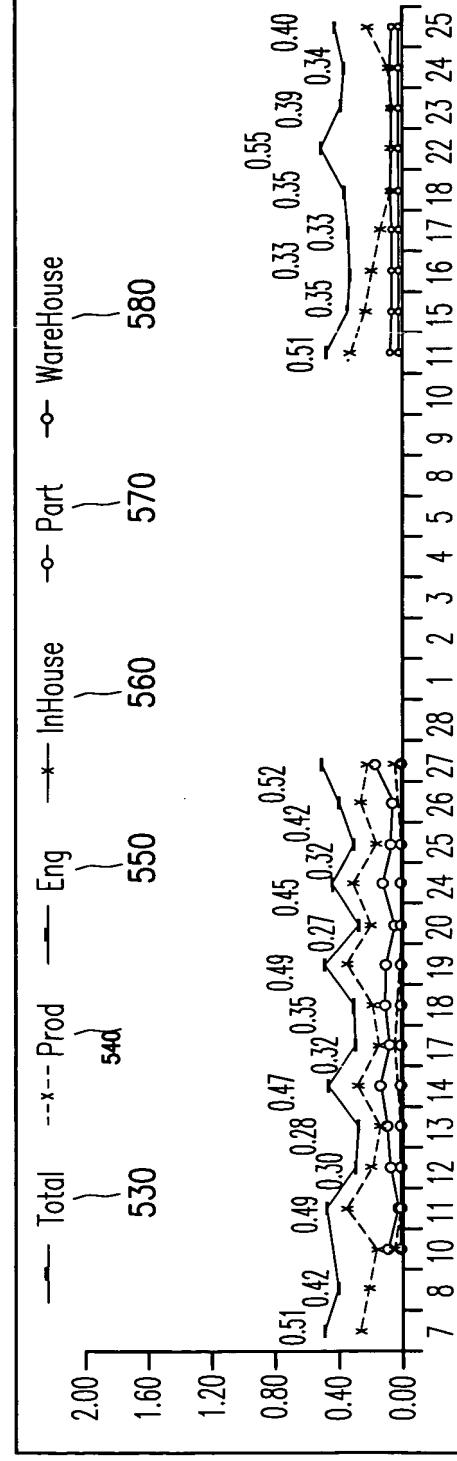


FIG. 7

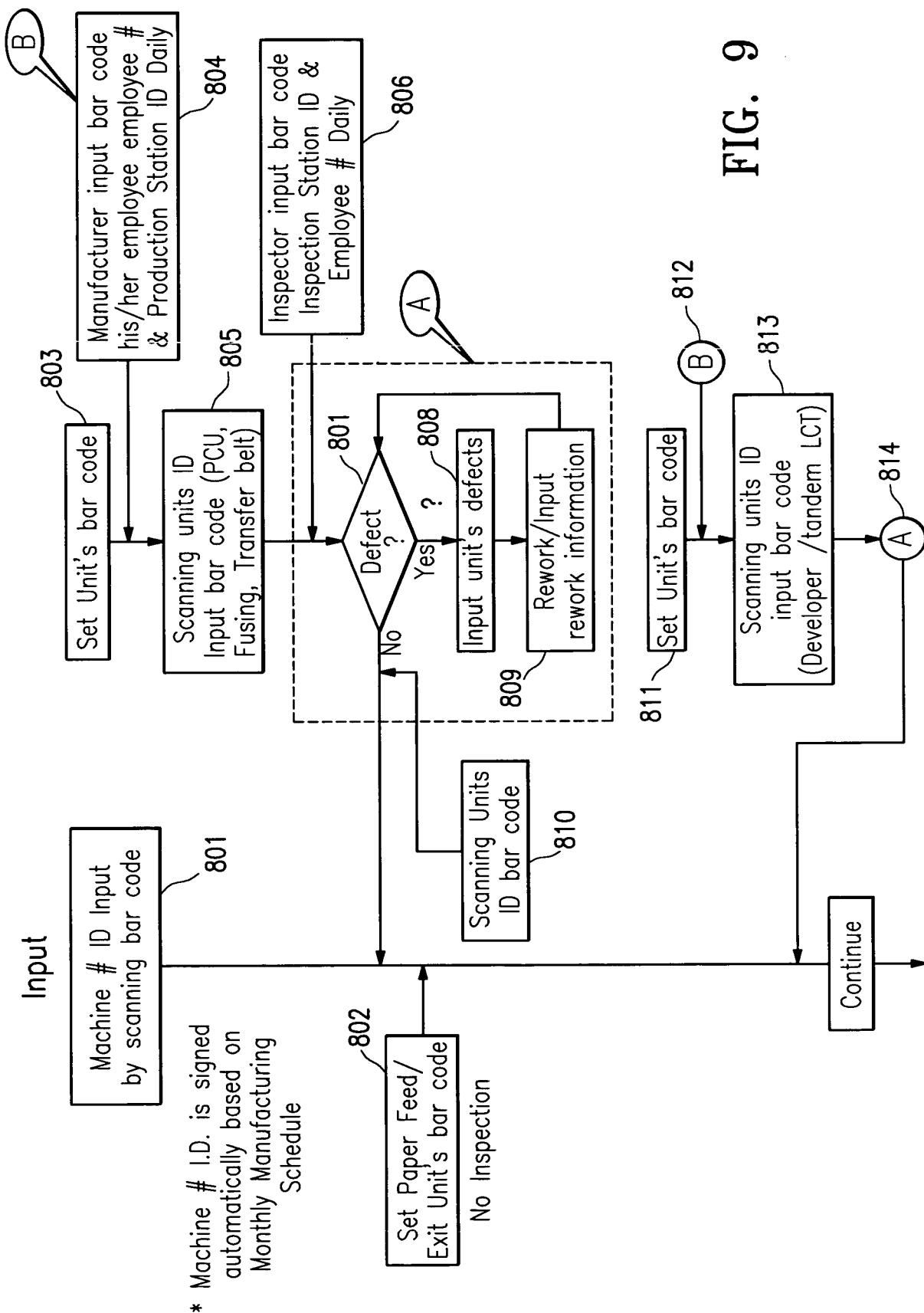


11/13

Date	Input			QC Output			Packing Output			Work in Progress			Total	Total	△
	600	610	620	630	640	650	660	670	680	690	700	710			
5/25/00	95			95	93		93	101		101	82	0	82		
5/24/00	95			95	100		100	102		102	88	0	88		
5/23/00	96			96	105		105	115		115	95	0	95		
5/22/00	82			82	78		78	57		57	114	0	114		
5/19/00	94			94	85		85	86		86	89	0	89		
5/18/00	91			91	87		87	115		115	81	0	81		
5/17/00	91			91	87		87	115		115	81	0	81		
5/16/00	94			94	90		90	60		60	105	0	105		
5/15/00	86			86	90		90	94		94	71	0	71		
5/11/00	93			93	85		85	82		5	87	79	0	79	
5/10/00	66			7	73	7	68	75	1	74	75	68	5	73	
5/9/00	91			91	91		85	85		84	84	3	72	75	
5/8/00	73			73			70	70		81	81	3	65	68	
5/5/00	62			62			64	64	1	63	64	3	73	76	▽

FIG. 8

12/13



13/13

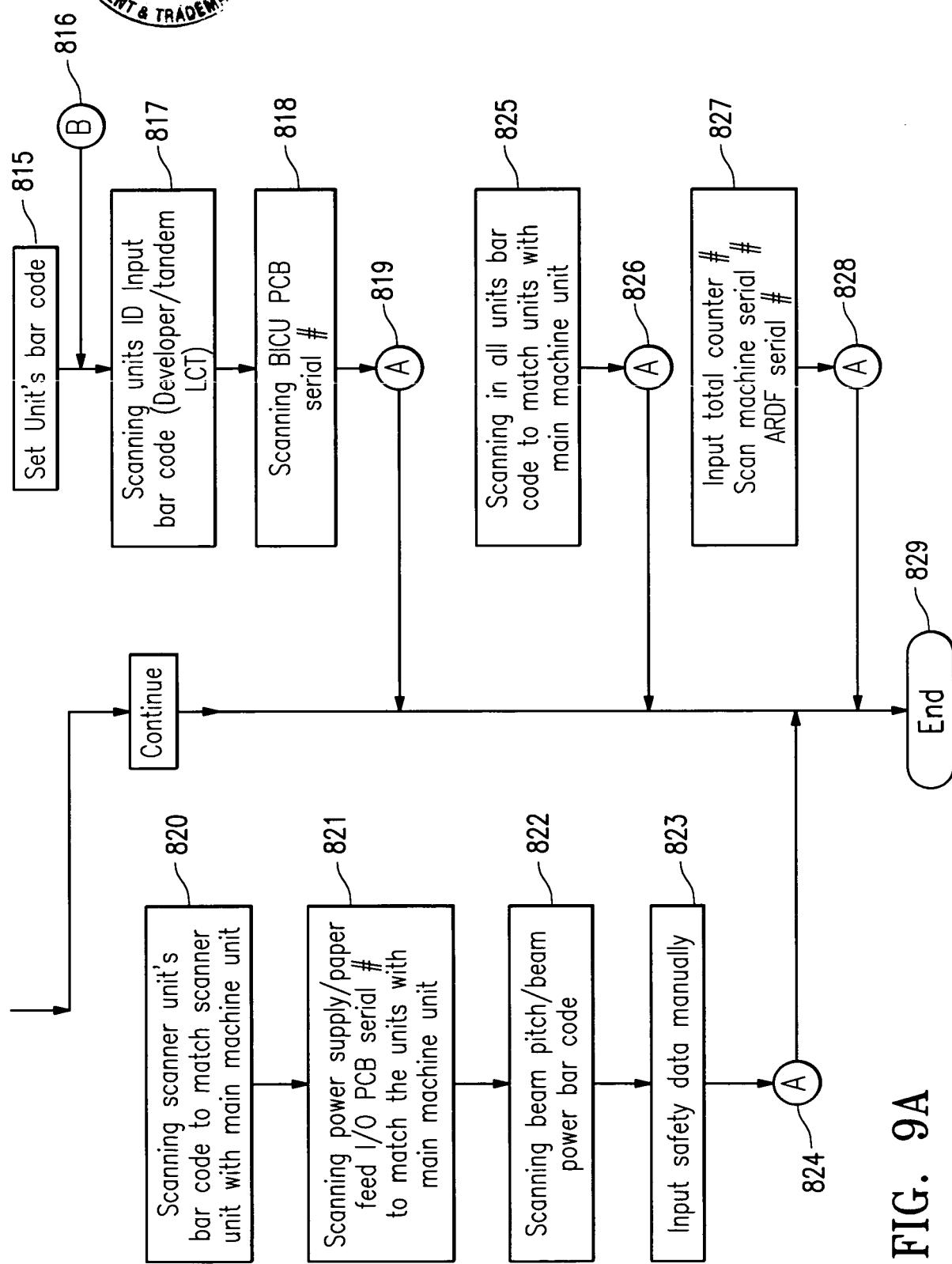


FIG. 9A